

**STIC Biotechnology Systems Branch**

**RAW SEQUENCE LISTING**

**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/534,538

Source:

PCT

Date Processed by STIC:

2/24/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/534,538

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics  
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☐ Misaligned Amino  
Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0  
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences  
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences  
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9 ☐ Use of n's or Xaa's  
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☒ Invalid <213>  
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
- 11 ☐ Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."  
Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
- 12 ☐ PatentIn 2.0  
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

## RAW SEQUENCE LISTING

DATE: 02/24/2006

PATENT APPLICATION: US/10/534,538

TIME: 12:45:48

Input Set : A:\272331US0PCT.ST25.txt

Output Set: N:\CRF4\02242006\J534538.raw

3 <110> APPLICANT: XI, YONGZHI  
 4 XI, CAIXIA  
 6 <120> TITLE OF INVENTION: A FULL-LENGTH POLYNUCLEOTIDE CODING CHICKEN TYPE II COLLAGEN  
 AND

7 THE USE OF IT  
 9 <130> FILE REFERENCE: 272331US0PCT  
 11 <140> CURRENT APPLICATION NUMBER: US 10/534,538  
 12 <141> CURRENT FILING DATE: 2005-05-12  
 14 <150> PRIOR APPLICATION NUMBER: PCT/CN03/00967  
 15 <151> PRIOR FILING DATE: 2003-11-14  
 17 <150> PRIOR APPLICATION NUMBER: CN 100039  
 18 <151> PRIOR FILING DATE: 2002-11-14  
 20 <160> NUMBER OF SEQ ID NOS: 29  
 22 <170> SOFTWARE: PatentIn version 3.3  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 5495  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Genomic DNA  
 29 <400> SEQUENCE: 1

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 32 gctcacagag accacatcct catctctctc tctctcccat agggcttgac ggggtcccatt 120  
 34 ggtccccctg gccctgctgg ccccaacggg gagaagggtga gagcagcatc acagcacccc 180  
 36 acattacgcc ccatgggatg accccagtgc ctccacctct ccatcctttc ttttccaggg 240  
 38 tgaatccggc cctcctgggc catctgggtg tgccgggtgcc cgtgggtgcc ccgtaagcac 300  
 40 aatgtctgca gcccctgggt gcccctaacc ttcaccctaa acccccatca acccctttat 360  
 42 caacctcccc catctcttcc cattagggtg agcgtggcga gcccgggtgcc cccgggtctg 420  
 44 ctggatttgc tggccccccg gtgagtgttt caccgccgaag ccccatcgc acaccacgt 480  
 46 cttcacccca catctcacc cactcatgg tggtctgtgt tcccatcagg gcgccgatgg 540  
 48 acaaccgggt gccaaaggcg agcagggaga gcccgggcag aagggtgacg cgggcgctcc 600  
 50 tgggtcccaa ggtccctccg gcgctcctgg cccccaggta caacaccaa tggggcaaac 660  
 52 ccccaaattt gggacgtcac ggccccaatg caggcacact gcagctcccg ttcggatttg 720  
 54 taacctgttt ttctctcctt cctagggtcc aaccgggtgc actgggtcca aaggagctcg 780  
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 74 tgcaggtag cccggcctcc aaggccccgc cggccccccc ggcgagaagg gcgaaccggg 1380  
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 78 cgtgggtgcc ttgttcttag tctgatttcc ccctctgctg ccctgcaggg tcccgacggc 1500

Does Not Comply  
 Corrected Diskette Needed  
 (Pg. 1, 3)

INVALID response #10 on error summary sheet. PLS see item

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Input Set : A:\272331US0PCT.ST25.txt

Output Set: N:\CRF4\02242006\J534538.raw

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84	gtgcactgaa	tcctatgggg	tgcagagatg	tgggggcccg	gatgctctgg	agcccatctc	1680
86	aggggtcgcc	agcccttttg	tgcagcccgg	ggacaccgtt	tgcagggtggg	ttgggggttt	1740
88	gcggagctcc	tttttcccca	ccaggagccg	ctgggtgcaag	gcttaaagcc	ggggcaggaa	1800
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92	agcgctgggg	tctctcccac	tcatgcacct	ctttcccatc	tttcagggag	aacctggaaa	1920
94	gcaaggagcg	cctggctctg	cgggtgaccg	aggtcccccc	ggccccgtgg	gccccctgg	1980
96	gctgacaggt	cctgctggag	aaccggggcg	cgaggtaaag	aaaaccccac	agcatcacag	2040
98	cggcaccggg	catcaccaac	cccattggac	agctcagctc	ccagagctcc	cgggtgtctt	2100
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104	gcgtgaaggt	gagcttgcca	tgcgtctccc	attggcactc	gccatccccg	tgccaaaagc	2280
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108	accggccctg	tgggtgctcc	cgggtgctct	ggagcccttg	gcgccccccg	ccctgttggg	2400
110	ccactggaa	aacaaggaga	cagaggcgag	acggtgagtg	ctggcacaag	ggtttagggt	2460
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114	cagtgtctg	tgcatttaaa	gatgctgtga	ggcaccaaca	gctgctgatt	gtcactgttg	2580
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130	cccccccgct	acgatgcggc	tcctttgggg	tctctgtggc	caccgaggct	ctgtctggcc	3060
132	caaagtgtg	accgcagagc	tgtgaccacc	cgggttccct	cctcagggcc	cgtctggaga	3120
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156	tctgccatcc	cgagtggaa	agcggtaaga	gctccgcgtg	cctctcccgt	cctccccctc	3840
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170	ccccctgca	ggagattact	ggattgacct	gaaccagggc	tgcaccttgg	acgccatcaa	4260
172	agtattctgc	aacatggaga	caggcgagac	ctgcgtctac	ccgaccccca	gcagcatccc	4320
174	caggaagaac	tgggtggacca	gcaagacgaa	agacaagaag	cacgtctggt	ttgcagagac	4380
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## RAW SEQUENCE LISTING

DATE: 02/24/2006

PATENT APPLICATION: US/10/534,538

TIME: 12:45:48

Input Set : A:\272331US0PCT.ST25.txt

Output Set: N:\CRF4\02242006\J534538.raw

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184 ccctacagcc ccttacggcc ctacagcagc gttaggaaaa aagttctgcc ccggagctgt 4680
186 gttgggcaca gaacagccct gtgatgccgg agctcgggga gcattgggac aacgctctca 4740
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216 &lt;211&gt; LENGTH: 4793

217 &lt;212&gt; TYPE: DNA

218 &lt;213&gt; ORGANISM: CDNA

220 &lt;400&gt; SEQUENCE: 2

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271 gatcggggac ctcaaggcaa agtcggccca actggtgctc ctggcgagga tggccgcccc 1560

```

INVALID  
response

← see item #10 on  
error summary  
Sheet.

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

## RAW SEQUENCE LISTING

DATE: 02/24/2006

PATENT APPLICATION: US/10/534,538

TIME: 12:45:48

Input Set : A:\272331US0PCT.ST25.txt

Output Set: N:\CRF4\02242006\J534538.raw

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279	ggtcctgtgg	gtgagagagg	agagcaagga	gcccccggtc	cttcgggctt	ccagggactg	1800
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317	acgggtcctg	ctggagaacc	cgggcgcgag	ggcaaccctg	gtgctgacgg	tctcccaggc	2940
319	agggatggcg	cagctggcgt	gaaggggtgat	cgtggtgaga	ccggccctgt	gggtgcccc	3000
321	ggtgctcctg	gagccctgg	cgccccggc	cctgttggtc	ccactggaaa	acaaggagac	3060
323	agaggcgaga	cgggtgcaca	agggcccatg	ggtccctctg	gtcccgtgg	agctcgagga	3120
325	atgccgggtc	cccaaggacc	tcgtgggtg	aaaggtgaga	cgggagaggg	tggagagaga	3180
327	gggtgaag	gccaccgtgg	cttcaccggt	ctgacgggtc	tgcccggacc	acccggcccc	3240
329	tctggagacc	aaggtgctgc	cgggtcccgt	ggtccctccg	gtcccagagg	tccccctggt	3300
331	ccgctcggcc	cctctggcaa	agatggctct	aacggcatgc	ccggccccat	cggctcctccc	3360
333	ggtccccgtg	gacggagtgg	tgaacccggc	cctgcgggtc	ctcctggaaa	ccccggtcct	3420
335	cccggtcctc	ctggcccccc	cggcacccggc	atcgacatgt	ctgcttttgc	tggactgggt	3480
337	cagacggaga	agggccccga	ccccatccgc	tacatgaggg	cagacgaggc	ggccggaggg	3540
339	ctgcggcagc	acgacgtgga	ggtggatgcc	accctcaaat	ccctcaaaa	tcagattgag	3600
341	agcatccgca	gccccgaggg	ctccaagaag	aaccctgcca	ggacctgccg	cgacatcaaa	3660
343	ctctgccatc	ccgagtggaa	gagcggagat	tactggattg	acccgaacca	gggtgcacc	3720
345	ttggacgcca	tcaaagtatt	ctgcaacatg	gagacggggc	agacctgcgt	ctaccgcacc	3780
347	cccagcagca	tccccaggaa	gaactgggtg	accagcaaga	cgaaagacaa	gaagcacgtc	3840
349	tggtttgag	agaccatcaa	cggcggtttc	cacttcagct	acggcgatga	gaacctgtcc	3900
351	cccaacaccg	ccagcatcca	gatgaccttc	ctgcgcctcc	tgtccaccga	gggtcccag	3960
353	aacgtcacct	accactgcaa	gaacagcatc	gcctacatgg	acgaggagac	gggcaacctg	4020
355	aagaaagcca	tcctcatcca	gggatccaac	gacgtggaga	tcagagccga	gggcaacagc	4080
357	aggttcacct	acagcgtctt	ggaggacggc	tgacgaaac	acactggcaa	atggggcaag	4140
359	acggtgatcg	agtaccgggt	gcagaagacc	tcgcgcctgt	ccattgtaga	tactgcacct	4200
361	atggacattg	gcggagccga	tcaggagttt	ggcggtggata	ttggcccagt	ctgcttcttg	4260
363	taaaaagggt	tgtgtgtatt	tgtgtgtttg	tttgtgtttt	ggttgtgtgt	ttttgtttct	4320
365	tttttttttt	tttttagaaa	agaaaggaat	ccagcccaat	cccataaaaag	caaaccagtc	4380
367	ccacccccag	gacccgcacg	ttcccagcac	aacttctgca	ctgaacggat	ggcacgaccc	4440
369	cgcgccccct	cgggaccctc	cggcgccgtc	accgggcaga	ctgcgaaata	caaccacggg	4500

## RAW SEQUENCE LISTING

DATE: 02/24/2006

PATENT APPLICATION: US/10/534,538

TIME: 12:45:48

Input Set : A:\272331US0PCT.ST25.txt

Output Set: N:\CRF4\02242006\J534538.raw

```

371 cttatatatta tttattgcct tcctggaagg cctgggttcg tagggcgggg ggaggtggga 4560
373 atcaatctgg caggtgtgac ggccccctc cccacaaagg gatctggcaa acgcaggtat 4620
375 cgcgaatccc ctcccctccc cgtgtatcac cagcaggagt gctaattgat catacaacag 4680
377 aaatgggtgct attcttgtaa aacaagtctg ttttttttaa catcagttga tataaaaaa 4740
379 acaaaaaaaaa aaacttttgg tggaaagtaa aaaaaacaaa aaaaaaaaaa aaa 4793
382 <210> SEQ ID NO: 3
383 <211> LENGTH: 1420
384 <212> TYPE: PRT
385 <213> ORGANISM: Chicken
387 <400> SEQUENCE: 3
389 Met His Gly Arg Pro Pro Arg Ser Ala Ala Leu Leu Leu Leu Leu
390 1 5 10 15
393 Leu Leu Leu Thr Ala Ala Ala Ala Ala Gln Asp Arg Asp Leu Arg Gln
394 20 25 30
397 Pro Gly Pro Lys Gly Gln Lys Gly Glu Pro Gly Asp Ile Lys Asp Val
398 35 40 45
401 Val Gly Pro Arg Gly Pro Pro Gly Pro Gln Gly Pro Ala Gly Glu Gln
402 50 55 60
405 Gly Gln Arg Gly Asp Arg Gly Glu Lys Gly Glu Lys Gly Ala Pro Gly
406 65 70 75 80
409 Pro Arg Gly Arg Asp Gly Glu Pro Gly Thr Pro Gly Asn Pro Gly Pro
410 85 90 95
413 Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Leu Gly Gly Asn Phe
414 100 105 110
417 Ala Ala Gln Met Ala Gly Gly Phe Asp Glu Lys Ala Gly Gly Ala Gln
418 115 120 125
421 Met Gly Val Met Gln Gly Pro Met Gly Pro Met Gly Pro Arg Gly Pro
422 130 135 140
425 Pro Gly Pro Thr Gly Ala Pro Gly Pro Gln Gly Phe Gln Gly Asn Pro
426 145 150 155 160
429 Gly Glu Pro Gly Glu Pro Gly Ala Ala Gly Pro Met Gly Pro Arg Gly
430 165 170 175
433 Pro Pro Gly Pro Pro Gly Lys Pro Gly Asp Asp Gly Glu Thr Gly Lys
434 180 185 190
437 Pro Gly Lys Ser Gly Glu Arg Gly Pro Pro Gly Pro Gln Gly Ala Arg
438 195 200 205
441 Gly Phe Pro Gly Thr Pro Gly Leu Pro Gly Val Lys Gly His Arg Gly
442 210 215 220
445 Tyr Pro Gly Leu Asp Gly Ala Lys Gly Glu Ala Gly Ala Pro Gly Ala
446 225 230 235 240
449 Lys Gly Glu Ser Gly Ser Pro Gly Glu Asn Gly Ser Pro Gly Pro Met
450 245 250 255
453 Gly Pro Arg Gly Leu Pro Gly Glu Arg Gly Arg Pro Gly Pro Ser Gly
454 260 265 270
457 Ala Ala Gly Ala Arg Gly Asn Asp Gly Leu Pro Gly Pro Ala Gly Pro
458 275 280 285
461 Pro Gly Pro Val Gly Pro Ala Gly Ala Pro Gly Phe Pro Gly Ala Pro
462 290 295 300
465 Gly Ser Lys Gly Glu Ala Gly Pro Thr Gly Ala Arg Gly Pro Glu Gly

```

## RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/534,538

TIME: 12:45:49

Input Set : A:\272331US0PCT.ST25.txt

Output Set: N:\CRF4\02242006\J534538.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/534,538

DATE: 02/24/2006

TIME: 12:45:49

Input Set : A:\272331USOPCT.ST25.txt

Output Set: N:\CRF4\02242006\J534538.raw